

Pali Krishna Harshith

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Objective

Aspiring AI developer focused on building intelligent systems and solving real-world optimization problems. Interested in contributing to large-scale software and AI initiatives while strengthening expertise in algorithms, machine learning, and system design.

Technical Skills

- Languages: *C, JavaScript, Python, Rust, C++*
- Core: *DSA, OOPs, DBMS*
- Web: *HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, React.js*
- Tools: *Git, Github, VS Code, Postman, Figma*
- Domains of Interest: *Full-Stack Web Dev, AI/ML, Competitive Programming*

Education

Mahindra Univesity, B.Tech in Computer Science and Engineering August 2024 – Present

- **Coursework:** Introduction to Computing, Data Structures, Digital Logic Design and Computer Architecture.
- Currently pursuing undergraduate studies with a strong interest in research, development, and building real-world tech projects. Actively involved in technical communities and hands-on learning through workshops, clubs, and independent work.

Projects

AITO – AI-Powered Traffic Optimization

Research & Development Project | Ongoing

- Designing an AI-based traffic optimization system that intelligently reroutes traffic using real-time and contextual data such as weather, congestion, human activity, and fixed-route constraints.
- Incorporating predictive modeling and ML algorithms to analyze traffic patterns and suggest optimal alternate paths in dense urban environments.

Tech Stack: Python, Pandas, NumPy, Scikit-learn, TensorFlow (planned), Firebase, JavaScript, React.js, Tailwind CSS, REST APIs, Git, Figma (for UI), VS Code, Leaflet

FAULTLINE – Predictive Microservice Failure Detection System

Independent Research Development Project | 2026

- Designed a predictive observability system that detects cascading failures in microservice architectures before outages occur using statistical drift analysis and multi-signal convergence across latency, retry, and error metrics.
- Built a cloud-native solution with an interactive dashboard and automated root-cause explanations generated via Amazon Bedrock to help engineers understand and prevent emerging system failures.

Tech Stack: AWS Lambda, Amazon DynamoDB, Amazon API Gateway, Amazon Bedrock, Amazon S3, Amazon CloudWatch, AWS Amplify, React (Vite), Node.js, JavaScript

Certifications

The Complete Full-Stack Web Development Bootcamp - Angela yu, Udemy(2023) Certification

- Gained hands-on experience in building responsive full-stack web applications using HTML, CSS, JavaScript, Node.js, Express, and MongoDB
- Learned backend fundamentals including RESTful APIs, authentication, databases, and server-side rendering using EJS and Built and deployed real-world projects such as authentication-based apps using OAuth, Passport.js, and MongoDB Atlas